Subject Index for
Electronics and Communications in Japan, Part 1, Vol. 77, 1994

AAL type 1: **6**, 1
Access scheme: **12**, 53
Actual configuration: **12**, 101
Active array: **1**, 117; **2**, 48
Adaptive antenna: **1**, 106
Adaptive array: **7**, 105
Adaptive array antenna: **2**, 60
Adaptive control: **4**, 71; **8**, 1
Adaptive equalizer: **4**, 103; **5**, 23
Adiabatic whispering gallery mode: **7**, 93
Adjacent channel interference: **5**, 23
Air interface: **8**, 101
Air traffic control: **9**, 99
Akaide information criterion: **11**, 72
Alarm signal: **1**, 66
Algorithm: **4**, 21
AMeDAS: **7**, 70
Amplitude fluctuations: **8**, 34
Analog component signal: **3**, 101
Analog video signal systems: **1**,1
Anistropy: **1**, 95
Antenna: **1**, 37, 46, 77
Antenna measurement: **10**, 39
Antenna model: **7**, 105
Approximating analysis: **7**, 14
ARQ: **9**, 73
Array antenna: **1**, 46
Asynchronous transfer mode (ATM): **9**, 63
ATM: **2**, 106; **4**, 10, 71; **6**, 87; **9**, 15, 30; **10**, 11; **11**, 13; **12**, 37
ATM cell: **6**, 1
ATM cell loss probability: **2**, 22
ATM coding: **3**, 25
ATM networks: **3**, 15; **4**, 46; **11**, 25
ATM method: **7**, 14
ATM switch: **10**, 11
ATM switching network: **4**, 1
Audiovisual communication: **3**, 63
Automatic synthesis: **3**, 1
Autonomous control: **3**, 75
Autoregressive modeling: **2**, 71

Band management: **3**, 15
Bandwidth control function: **9**, 63
Bandwidth reservation: **11**, 25
Baseband phase comparison method: **1**, 26
Baseband processing: **5**, 23
Bend: **5**, 44
Bentonite: **5**, 68
Binary neuron: **11**, 106
Bit interleaving technique: **11**, 83
Broadband analog switching: **1**,1
Broadband electromagnetic wave absorber: **6**, 68, 76
Broadband integrated services digital network (B-ISDN): **9**, 63; **12**, 37
Broadband ISDN: **4**, 111; **11**, 13
Broadcast ATM: **9**, 30
Broadcast systems: **2**, 11
Buried-object detection: **6**, 59
Buried objects: **5**, 93
Burstiness: **4**, 46
Bursty traffic: **2**, 22
Butterworth reference equalization model: **7**, 81

Cable structure: **8**, 90
Call-level properties of networks: **4**, 1
Call loss probability: **3**, 15; **4**, 46
Call waiting: **4**, 46
Car-borne imaging radar: **10**, 49
Cell: **10**, 11
Cell interval compression: **8**, 13
Cell loss: **4**, 10; **6**, 1, 87
Cell misdelivery: **6**, 1
Cellular telephone: **8**, 101
Capacity assignment: **7**, 27
Capacity control: **4**, 71
Capacity test: **10**, 1
Capture: **4**, 92
Carrier recovery: **8**, 59
Channel assignment control: **4**, 111
Channel capacity: **3**, 88
Channel coding: **9**, 52
Characteristic analysis: **7**, 105
Charge/discharge characteristics: **10**, 1
Chromatic dispersion: **1**, 26
Chromatic dispersion equalizer:**11**, 49
Circular cylinder scattering: **6**, 98
Circularly polarized incidence: **1**, 85
Code conversion: **10**, 21
Coherent detection: **1**, 14; **8**, 34
Coherent optical transmission: **11**, 49
Common mode voltage: **9**, 108
Communication power supply: **10**, 1

Communication protocol: **2**, 11; **3**, 88
Concave boundary surface: **7**, 93
Conformance testing: **3**, 1
Constitution: **11**, 38
Constant false alarm rate: **11**, 72
Convergence characteristics: **2**, 60
Cooperative distributed system: **4**, 21
Copy connection: **10**, 11
Cordless telephone: **8**, 101
Cornish's expansion: **7**, 38
Coupling admittance: **9**, 108
Coupling impedance: **9**, 108
CPFSK: **11**, 49
Cross connect: **11**, 1
Cross-Poynting vector: **6**, 98
Crosstalk allocation: **1**,1
Current probe: **10**, 75

DC drift: **4**, 62
Degradation estimation method: **10**, 1
Delay: **3**, 63
Deployable truss: **8**, 90
Differential detection: **12**, 88
Differential GPS: **6**, 27
Diffraction tomography: **7**, 60
Digital microwave radio systems: **11**, 83
Digital mobile communication: **4**, 103
Digital mobile radio: **9**, 85
Digital path switching: **3**, 75
Dipole: **11**, 59
Direct detection: **12**, 10
Direction of arrival estimation: **2**, 71
Directivity: **1**, 106; **2**, 60
Discontinuity radiation: **6**, 109
Discrete-cosine transform: **9**, 52
Distributed control: **8**, 24
Diversity: **9**, 85
Diversity detection: **8**, 34
Doppler shift: 8, 59
Double bursty error correction: **12**, 1

EDFA: **1**, 14
EEPROM: **2**, 94
Effective frequency utilization: **5**, 23
EHF: **3**, 101
Eigenvector analysis: **2**, 71
Electric field sensor: **10**, 39
Electromagnetic energy flux density: **6**, 98
Electromagnetic environment: **1**, 66
Electromagnetic interference: **1**, 66; **10**, 39
Electromagnetic interference wave: **1**, 66
Electromagnetic wave scattering: **1**, 85
Electrooptic effect: **10**, 39
Equalization: **9**, 85
Error control protocol: **7**, 48
Estimation method: **12**, 101
Estimation of spurious emissions: **11**, 94
Euclidean distance: **2**, 80
Evaluation parameters: **7**, 81
Excess: **7**, 38

Fabry-Perot etalon: **6**, 16
Facsimile: **10**, 21
Fading: **6**, 87
Far-end measurement: **1**,26
Fast processing: **12**, 62
Fault location: **7**, 1
FDTD: **5**, 93
FD-TD method: **10, 96**
Feed antenna: **5**, 55
Ferroresonant power supply: **3**, 55
File transfer: **4**, 46
Fin structure: **6**,68
Final prediction error: **2**, 71
Fluid-flow approximation: **2**, 22
Frame synchronization: **2**, 80
Frequency scanning: **5**, 55
Frequency segment: **11**, 106
Frequency-selective fading: **4**, 103; **5**, 103
Frequency-selective screen: **1**, 85
Front-looking radar: **10**, 49
Full-wave method: **11**, 59

Generalized product code: **12**, 1
Geostationary satellite: **9**, 99; **10**, 60
22-GHz band: **6**, 49
*GI/GI*1 virtual queueing model: **2**, 22
Global position system: **6**, 27
GMD decoding: **9**, 73
Go-Back-N ARQ: **7**, 48
Grid structure: **10**, 106
Ground: **5**, 93
Grounding resistance: **5**, 68

Handover: **9**, 41
HDTV: **3**, 101
Heirarchical coding: **3**, 25; **12**, 23
Heirarchical motion detection: **3**, 25

Heirarchical network: **11**, 38
Heirarchy: **11**, 1
Heterogeneous-traffic network: **4**, 34
High-definition video coding: **12**, 23
High-output optical amplifiers: **11**, 49
High resolution: **6**, 16
High-speed data services: **12**, 37
High-speed data transmission: **9**, 1
High-speed optical transmission systems: **4**, 62
HIPAS experiment:**11**, 59
Hitless path protection switching: **8**, 13
Huffman coding: **12**, 62
Human body: **1**, 77
Human interface: **5**, 12
Hybrid ARQ: **7**, 48
Hyperdistributed system: **11**, 13

ID module: **2**, 94
Image coding: **8**, 1; **9**, 52
Image coding processor: **10**, 21
Image processing: **6**, 59
Image recognition: **6**, 59
Image reconstruction: **7**, 60
Impedance method: **1**, 77
Induction voltage: **9**, 108
Infinite periodic array: **1**, 85
Integral-type interference wave: **7**, 93
Intensity modulation: **12**, 10
Intercode decoding method: **12**, 1
Interference cancelling: **9**, 85
Intersatellite communication: **1**, 117
Intersatellite optical communication: **12**, 73
ISDN network resources: **4**, 34
Ionosphere: **11**, 59
Iterative equalizing: **4**, 103

Kalman filter: **1**, 106; **2**, 60
K-distribution: **1**, 57; **11**, 72
KL transform: **8**, 1

Laguerre density: **7**, 38
Land-based mobile communication systems: **6**, 27
Land mobile communication: **2**, 48
Large deployable antenna: **1**, 95
Large-space structure: **8**, 90
Laser collimater: **8**, 70
Laser driver: **8**, 70
Layered coding: **4**, 10
Lead-acid battery: **10**, 1
Leased circuits: **11**, 1
Lightning surge current: **10**, 75
$LiNbO_3$: **4**, 62
Linear dynamical system: **7**, 105
Local area networks: **5**, 1; **12**, 53
Long-wavelength holography: **10**, 49
LOTOS: **3**, 1
low earth orbit: **8**, 59
low sidelobe: **6**, 49

Mach-Zehnder optical modulator: **4**, 62
Magnetally controlled power supply: **3**, 55
Magnetic resonance imaging: **1**, 37, 77
Management system: **2**, 94
Markov model: **2**, 1
Maximum likelihood location: **2**, 71
MDS codes: **9**, 73
Mean-separated normalized vector quantization: **12**, 23
Mesh antenna: **8**, 90
Mesh antenna reflector: **8**, 80
Mesh-reflecting surface: **1**, 95
Message transmission: **2**, 36
Meteor burst communication: **2**, 11, 36; **3**, 88
Microorganism decomposition: **5**, 68
Microstrip antenna: **1**, 117
Mobile communication: **1**, 106
Mode: **7**, 38
Modem: **9**, 41
Modular antenna: **8**,90
Moment method: **1**, 85
Mosquito noise: **8**, 1
M-transform: **9**, 52
Multibeam antenna: **1**, 117; **6**, 49
Multibeam satellite communication system: **4**, 111
Multibeam satellite network: **5**, 79
Multibranching line: **6**, 109
Multicast communications: **9**, 73
Multidimensional coding: **6**, 39
Multilayered structure: **6**, 76
Multimedia: **4**, 71; **11**, 13
Multimedia communications: **7**, 27
Multinode queuing delay: **8**, 13
Multiple bit-rate network: **4**, 34
Multiple differential detection: **5**, 103
Multiplexing effect: **7**, 14
Multiport optical accessory: **5**, 33
Multiunit: **11**, 38

Network dimension: **4**, 34
Network management: **5**, 12
Neural network: **11**, 106
Nonblocking property: **4**, 1

Nonlinear canceller: **5**, 23
Nonparametric approach: **2**, 106
Nonstationary state condition: **1**, 106
Normal mode voltage: **9**, 108

OAM: **9**, 15
Offset parabolic reflector: **5**, 55
Operation: **3**, 6
Operation scope: **5**, 12

Optical communication systems: **12**, 10
Optical fiber: **3**, 41
Optical fiber connector: **2**, 94
Optical hetereodyne detection: **12**, 73
Optical intersatellite link: **8**, 70
Optical ISL: **8**, 70
Optical measurement: **10**, 39
Optical spectrum: **5**, 16
Optimal frequency assignment: **11**, 106
Optimal time domain reflectometry (OTDR): **8**, 34
Optimization: **11**, 38
Optimization method: **5**, 12
Optimization of channel design: **5**, 79
Optimization of interbeam connnection: **5**, 79
Optimum combining: **9**, 85
Optimum network configuration: **4**, 1
ORS: **7**, 70
Orthogonal circular polarizations: **3**, 101
Orthogonal transfer coding: **8**, 1
OSI management: **5**, 12
OTDR: **1**, 14; **3**, 41; **7**, 1

Packet failure rate: **4**, 92
Packet radio communication: **3**, 88
Packet radio netword: **2**, 1
packet switching network: **7**, 27
Packets with subblocks: **2**, 36
Parallel control: **8**, 24
Parallel processing: **4**, 21; **10**, 21
Passive double star: **7**, 1
Path allocation: **4**, 21
Path feedback: **5**, 103
Pattern matching: **7**, 1
Pattern synthesis: **6**, 49
Peak power: **7**, 81
Performance analysis: **2**, 1
Performance evaluation: **2**, 36; **7**, 48
Phased array: **1**, 117
Pipeline processing: **4**, 79
Planar antenna: **1**, 46
Polarizations: **3**, 101
Polling analysis: **12**, 53
Positioning: **9**, 99
Poynting vector: **6**, 98
Priority control: **3**, 15
Probe light: **4**, 62
Progressive scan signls: **3**, 25
Propagation characteristics: **12**, 101
Protection path: **8**, 13
Protocol processing: **4**, 79
Protocol processing time: **9**, 1
Protocol processor: **4**, 79
pseudo-random pattern: **9**, 15
PSK: **7**, 81
Pulse integration: **1**, 57
Pulse response: **10**, 96
Pulsed radar method: **6**, 59

Quantization: **2**, 80
Queue: **9**, 63
Queueing network: **11**, 25

Radar: **7**, 60
Radar clutter: **1**, 57
Radar interference cancellation: **11**, 83
Radial line slot antenna: **1**, 46
Radiated interference: **12**, 101
Radiated power: **6**, 109
Radiation: **5**, 44
Radiation interference: **11**, 94
Radio position determination: **10**, 60
Radio systems: **11**, 83
Radio wave propagation: **2**, 48
Rain attenmuation: **6**, 39; **7**, 70; **8**, 48
Random access: **4**, 92
Ranging: **9**, 99
Ranging time rate: **6**, 27
Ray tracing: **7**, 93
Real-time processing: **12**, 62
Redundant configuration: **10**, 85
Reflection loss: **1**, 95
Reflector compensation: **8**, 80
Region-oriented coding: **8**, 1
Repeater: **2**, 11
Resistance reduction: **5**, 68
Resolution conversion: **10**, 21

Response interval: **9**, 1
RF shield: **1**, 37
Richmond's method: **1**, 37, 77
Rogowski coil: **10**, 75
Rubber finite: **6**, 76

Satellite broadcasting: **1**, 46; **6**, 49
Satellite communications: **6**, 39; **7**, 48, 70; **8**, 70; **10**, 60; **11**, 106
Satellite constellations: **8**, 59
Satellite switch control: **4**, 111
SAW filter matrix: **10**, 85
Scalability; **12**, 23
SCPC: **10**, 60
Sea clutter: **11**, 72
SEC-DED code: **12**, 1
Selective availability: **6**, 27
Self-healing: **3**, 75
Self-phase modulation: **1**, 14
SDH network: **3**, 75
SDH signal: **6**, 1
Shape control system: **8**, 80
Shape-measurement sensor: **8**, 80
Shared buffer ATM switch: **11**, 13
Shared buffer-type ATM switch: **9**, 63;
Signal processing VLSI: **12**, 62
Signal-to-noise ratio: **7**, 81
Simulated source: **12**, 101
Sintered ferrite: **6**, 68, 76; **10**, 106
Skewness: **7**, 38
Slip: **9**, 41
Slotted ALOHA protocol: **2**, 1
Slotted wave guide: **5**, 55
Soft decision data: **2**, 80
Source coding: **9**, 52
Spacial field pattern matching: **12**, 73
Spacial tracking system: **12**, 73
Spectral efficiency: **8**, 59
Spectroscopy: **6**, 16
Spectrum utility efficiency: **8**, 101
Spherical dipole antenna: **12**, 101
Spread spectrum: **10**, 60
Spurious emissions by electronic equipment: **11**, 94
SS/FDMA system: **5**, 79: **10**, 85
SS-TDMA system: **4**, 111
Standardization: **12**, 37
Star-shaped ring: **5**, 33
State transition matrix: **1**, 106
Steering signal: **7**, 105
Stimulated Brillouin scattering: **11**, 49
Subjective quality: **3**, 63
Surface patch segment: **1**, 37
Surface wave transmission line: **5**, 44
Surge waveform: **1**, 66
Switching network: **9**, 30; **11**, 38
Switching system: **8**, 24
S/X
Sync lag: **9**, 41
Synchronization control: **4**, 111
Synchronous digital heirarchy (SDH): **11**, 1
Synthetic aperture: **6**, 59
Synthetic aperture method: **10**, 49

TDMA satellite communication: **8**, 48
Telephone network: **11**, 38
Television phone: **3**, 63
Test: **3**, 41; **8**, 24; **9**, 15
Test cases: **3**, 1
Test site: **12**, 101
Three-value image: **6**, 59
Throughput: **4**, 92
Throughput analysis: **4**, 79
Traffic burstiness: **3**, 15
Traffic characteristics: **12**, 53
Traffic theory: **2**, 106
Transient analysis: **10**, 96
Transient scattering: **5**, 93
Transmission: **5**, 44
Transmission characteristics: **1**, 26
Transmission delay difference absorption buffer: **8**, 13
Transmission efficiency: **9**, 1
Transmission loss: **1**, 95
Transmission performance: **9**, 15
Transmission power control: **8**, 48
Transmitter-side Nyquist shaping model: **7**, 81
Traveling wave: **6**, 109
Traveling-wave electrode: **4**, 62
Traveling wave mode method: **5**, 44
Two-dimensional: **5**, 93
Two-dimensional interpolation: **7**, 60
Two-way communication: **3**, 88

Unique word: **2**, 80
Usage parameter control: **7**, 14

Variable capacity: **6**, 87
Variable transition: **7**, 38
Video: **3**, 63; **4**, 10
Video coding: **3**, 25; **12**, 23; **12**, 62
Virtual channel: **11**, 25
Virtual path: **4**, 71; **6**, 87; **9**, 15; **11**, 25
Viterbi algorithm: **5**, 103; **12**, 88

Viterbi equalizer: **4**, 103
VLF wave: **11**, 59
Voltage drop compensation: **3**, 55
VSAT: **6**, 39

Water-absorbent polymers: **5**, 68
4-Wave mixing: **1**, 14

Waveform: **7**, 1
Weak optical signal receiver: **12**, 10
Weight coefficients: **2**, 60
Weighted moving average: **1**, 57
Wideband electromagnetic wave absorber: **10**, 106
Window size: **9**, 1
Wire antenna: **10**, 96
Wireless camera: **3**, 101

X-band radar: **11**, 72

Yagi-Uda antenna: **10**, 96

Zone configuration: **2**, 48
Zone-structured network: **2**, 1